

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) <input type="checkbox"/> Declaration Submitted with Initial Filing OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	PDT 120
	First Named Inventor	Solomon S. Steiner
	COMPLETE IF KNOWN	
	Application Number	09 / 606,468
	Filing Date	June 29, 2000
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**PURIFICATION AND STABILIZATION OF PEPTIDE
AND PROTEIN PHARMACEUTICAL AGENTS**

the specification of which
☐ is attached hereto
OR
☒ was filed on (MM/DD/YYYY) **06/29/2000** as United States Application Number or PCT International

Application Number **09/606,468** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)
60/141,433	06/29/1999

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PDT 120

20138/46

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PTO/SB/01 (12-97)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☐ Customer Number

OR

☒ Registered practitioner(s) name/registration number listed below

Place Customer
Number Bar Code
Label here

Name	Registration Number	Name	Registration Number
Patrea L. Pabst	31,284	Felipe J. Farley	38,445
Robert A. Hodges	41,074	Zhaoyang Li	P-46,872
Kevin W. King	42,737		

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer Number or Bar Code Label

OR ☒ Correspondence address below

Name	Patrea L. Pabst				
Address	Arnall Golden & Gregory, LLP				
Address	2800 One Atlantic Center, 1201 West Peachtree Street				
City	Atlanta	State	GA	ZIP	30309-3450
Country	United States	Telephone	(404)873-8794	Fax	(404)873-8795

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
Solomon S.		Steiner	
Inventor's Signature			Date
Residence: City	Mount Kisco	State	NY
		Country	US
Post Office Address	24 Old Wagon Road		
Post Office Address			
City	Mount Kisco	State	NY
		ZIP	10549
		Country	US

☒ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

PURIFICATION AND STABILIZATION OF PEPTIDE AND PROTEIN PHARMACEUTICAL AGENTS

Please type a plus sign (+) inside this box → ☐

PTO/SB/02A (3-97)
Approved for use through 9/30/98. OMB 0651-0032
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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>1</u> of <u>1</u>
--------------------	---

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname			
Rodney J.				Woods			
Inventor's Signature						07/10/2000	
Residence: City	New Hampton	State	NY	Country	US	Citizenship	US
Post Office Address 1213 Ridgebury Road							
Post Office Address							
City	New Hampton	State	NY	ZIP	10956	Country	US
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname			
Joseph W.				Sulner			
Inventor's Signature						07/10/2000	
Residence: City	Paramus	State	NJ	Country	US	Citizenship	US
Post Office Address 330 Bullard Avenue							
Post Office Address							
City	Paramus	State	NJ	ZIP	07652	Country	US
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname			
Inventor's Signature						Date	
Residence: City		State		Country		Citizenship	
Post Office Address							
Post Office Address							
City		State		ZIP		Country	

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Solomon S. Steiner, Rodney J. Woods, and Joseph W. Sulner

Serial No: 09/606,468

Art Unit: 1615

Filed: June 29, 2000

Examiner: L. Di Nola Baron

For: **PURIFICATION AND STABILIZATION OF PEPTIDE AND
PROTEIN PHARMACEUTICAL AGENTS**Assistant Commissioner
for Patents
Washington, D. C. 20231**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
AND REVOCATION OF PRIOR POWERS**

Sir:

As owner of the entire interest of the above-identified patent application, all powers of attorney previously given are hereby revoked and the following attorneys and agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Patrea L. Pabst
Zhaoyang Li
Rivka Monheit
Yang XuRegistration No. 31,284
Registration No. 46,872
Registration No. 48,731
Registration No. 45,243

Please send all correspondence relating to the above-identified patent application to:

Patrea L. Pabst
HOLLAND & KNIGHT LLP
One Atlantic Center
1201 West Peachtree Street, Suite 2000
Atlanta, Georgia 30309-3400(404) 817-8473 - Telephone
(404) 817-8588 - TelefaxPDT 120/121
- 07837400015

U.S.S.N. 09/606,468
Filed June 29, 2000
Power of Attorney by Assignee of Entire
Interest and Revocation of Prior Powers

The undersigned signatory (whose title is supplied below) is empowered to act on behalf of the assignee identified below, and has reviewed all the documents in the chain of title of the patent application and, to the best of undersigned's knowledge and belief, title is in the assignee.

PHARMACEUTICAL DISCOVERY CORPORATION

By: 

Name: Solomon S. Steiner

Title: CEO

Date: 12-13-01

ATL1 #498579 v1

PDC 120/121
078374700015

PTD/AB/06 (08-00)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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STATEMENT UNDER 37 CFR 2.73(h)

Applicant/Patent Owner: Solomon S. Steiner, Rodney J. Woods, and Joseph W. Sulner
 Application No./Patent No.: 09/606,468 Filed/Issue Date: June 29, 2000
 Entitled: PURIFICATION AND STABILIZATION OF PEPTIDE AND PROTEIN PHARMACEUTICAL AGENTS
Pharmaceutical Discovery Corporation, a Corporation
 (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
 2. ☐ an assignee of less than the entire right, title and interest.
 The extent (by, percentage) of its ownership interest is _____ %
 in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 011074, Frame 0473, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.
 2. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at
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 3. From: _____ To: _____
 The document was recorded in the United States Patent and Trademark Office at
 Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.
 [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3. If the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

12-13-01
 Date

Solomon S. Steiner
 Typed or printed name
[Signature]
 Signature
CEO
 Title

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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

NOVEMBER 03, 2000

PTAS

ARNALL GOLDEN & GREGORY, LLP
PATREA L. PABST
2800 ONE ATLANTIC CENTER
1201 WEST PEACHTREE STREET
ATLANTA, GA 30309-3450



101463604A

UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/01/2000

REEL/FRAME: 011074/0473
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

STEINER, SOLOMON S.

DOC DATE: 07/18/2000

ASSIGNOR:

WOODS, RODNEY J.

DOC DATE: 07/10/2000

ASSIGNOR:

SULNER, JOSEPH W.

DOC DATE: 07/10/2000

ASSIGNEE:

PHARMACEUTICAL DISCOVERY
CORPORATION
33 WEST MAIN STREET, 4TH FLOOR
ELMSFORD, NEW YORK 10523

SERIAL NUMBER: 09606468
PATENT NUMBER:

FILING DATE: 06/29/2000
ISSUE DATE:

RECEIVED

NOV 08 2000

PATENT DEPT.

DOCKETED FOR PDT 120/121
BY JCS
DATE 11-16-00

011074/0473 PAGE 2

ANTIONE ROYALL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

09-20-2000

U.S. Department of Commerce
Patent and Trademark Office
PATENT



101463604

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

☒ New *9-1-00*

☐ Resubmission (Non-Recordation)
Document ID#

☐ Correction of PTO Error
Reel # Frame #

☐ Corrective Document
Reel # Frame #

Conveyance Type

☒ Assignment ☐ Security Agreement

☐ License ☐ Change of Name

☐ Merger ☐ Other

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Month Day Year

Name (line 1)

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Receiving Party

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Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)
City State/Country Zip Code

☐ If document to be recorded
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domiciled in the United
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of a domestic
representative is attached.
(Designation must be a
separate document from
Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

09/18/2000 DNGUYEN 00000544 09606468

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Sulner, Joseph W.

Execution Date
Month Day Year

07102000

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

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Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

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Zip Code

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Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09606468

Correspondent Name and Address

Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments.

#

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

<input type="text" value="09606468"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

Number of Properties

Enter the total number of properties involved.

#

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:
Deposit Account

Enclosed ☒

Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

#

Authorization to charge additional fees:

Yes

☒

No

☐

Statement and Signature

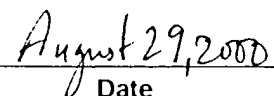
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Kevin W. King

Name of Person Signing
Reg. No.: 42,737



Signature



Date

ASSIGNMENT

We, Solomon S. Steiner of 24 Old Wagon Rd., Mount Kisco, New York 10549, Rodney J. Woods of 1213 Ridgebury Road, New Hampton, New York 10956, and Joseph W. Sulner of 330 Bullard Avenue, Paramus, New Jersey 07652, in consideration of ten dollars and other valuable consideration paid to us by Pharmaceutical Discovery Corporation, a corporation of the State of Delaware, having its principal place of business at 33 West Main Street, 4th Floor, Elmsford, New York 10523, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Pharmaceutical Discovery Corporation, its successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Purification and Stabilization of Peptide and Protein Pharmaceutical Agents*" described in U.S. Application Serial No. 09/606,468 filed in the U.S. Patent and Trademark Office on June 29, 2000, by Solomon S. Steiner, Rodney J. Woods, and Joseph W. Sulner, which claims priority to U.S. Provisional Application Serial No. 60/141,433 filed in the United States Patent and Trademark Office on June 29, 1999, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

Title: "Purification and Stabilization of

Peptide and Protein Pharmaceutical Agents"

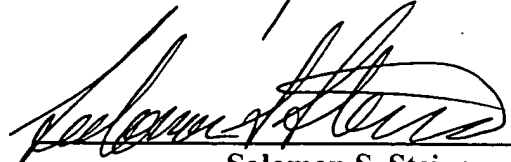
By: Solomon S. Steiner, Rodney J. Woods, and Joseph W. Sulner

Filed: June 29, 2000

ASSIGNMENT

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

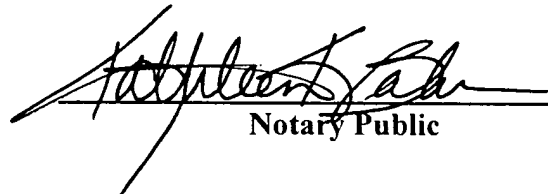
WITNESS my hand and seal this 18th day of July, 2000.


Solomon S. Steiner

State of New York)

County of Westchester)

Then personally appeared the above named Solomon S. Steiner and acknowledged the foregoing instrument to be his free act and deed, before me this 18th day of July, 2000.

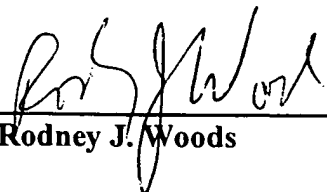

Notary Public

My Commission expires: 12-15-01

Kathleen K. Balun
Notary Public of State of New York
#01BA6000237
Qualified in Putnam County
Commission Expires 12-15-2001

Title: "Purification and Stabilization of
Peptide and Protein Pharmaceutical Agents"
By: Solomon S. Steiner, Rodney J. Woods, and Joseph W. Sulner
Filed: June 29, 2000
ASSIGNMENT

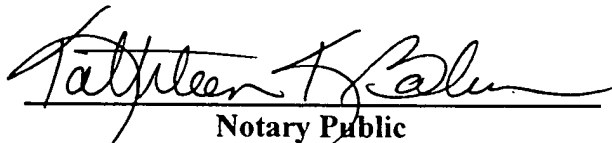
WITNESS my hand and seal this 10th day of July, 2000.



Rodney J. Woods

State of New York)
County of Westchester)

Then personally appeared the above named Rodney J. Woods and acknowledged
the foregoing instrument to be his free act and deed, before me this 10th day of
July, 2000.



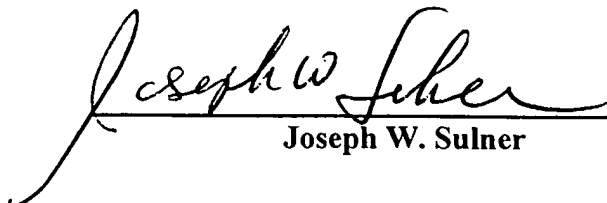
Notary Public

My Commission expires: December 15, 2001

Kathleen K. Balun
Notary Public of State of New York
#01BA6000237
Qualified in Putnam County
Commission Expires 12-15-2001

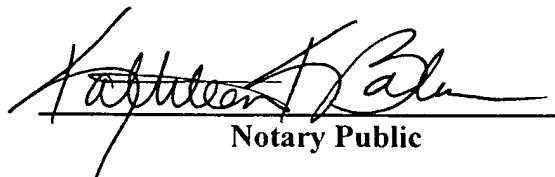
Title: "Purification and Stabilization of
Peptide and Protein Pharmaceutical Agents"
By: Solomon S. Steiner, Rodney J. Woods, and Joseph W. Sulner
Filed: June 29, 2000
ASSIGNMENT

WITNESS my hand and seal this 10th day of July, 2000.


Joseph W. Sulner

State of New Jersey)
County of Westchester)

Then personally appeared the above named Joseph W. Sulner and acknowledged
the foregoing instrument to be his free act and deed, before me this 10th day of
July, 2000.


Notary Public

My Commission expires: December 15, 2001

Kathleen K. Balun
Notary Public of State of New York
#01BA6000237
Qualified in Putnam County
Commission Expires 12-15-2001